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APPLICATION NO.	12/06/2000		FIRST NAMED INVENTOR Daniel W. Sexton	ATTORNEY DOCKET NO.	CONFIRMATION NO. 8687	
09/731,141				30-GF-1100		
7:	590 1:	2/02/2003		EXAMI	EXAMINER	
John S. Beulio		PHAM, THOMAS K				
Armstrong Teasdale LLP Suite 2600				ART UNIT	PAPER NUMBER	
One Metropolitan Square St. Louis, MO 63102				2121	12	
				DATE MAILED: 12/02/2003	14	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Appli	ication No.	Applicant(s)	0				
Office Action Summary			31,141	SEXTON, DANIEL	W.				
			niner	Art Unit					
			nas K Pham	2121					
Period fo	The MAILING DATE of this communi or Reply	cation appears o	n the cover sheet t	with the correspondence add	ress				
THE - Exte after - If the - If NO - Failt - Any	IORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNION Inscisions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commit be period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply reply received by the Office later than three months affed patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In unication. of days, a reply within the tutory period will apply a will, by statute, cause the	no event, however, may a ne statutory minimum of the and will expire SIX (6) MO ne application to become	a reply be timely filed hirty (30) days will be considered timely. DNTHS from the mailing date of this con ABANDONED (35 U.S.C. § 133).					
1)⊠	Responsive to communication(s) file	d on <u>06 August 2</u>	<u>2003</u> .						
2a) <u></u> □	This action is FINAL . 21	b)⊠ This action	is non-final.						
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
5)□ 6)⊠ 7)□	 4) ☐ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 								
Applicat	ion Papers								
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	a) accepted of accepted of accepted of accepted of accepted accept	g(s) be held in abeya equired if the drawir	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFF	` '				
Priority	under 35 U.S.C. §§ 119 and 120								
12) \(\tag{ \tau} \) a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority of the priority of the certified copies of the priority of the certified copies of the certified copies of application from the Internation of the attached detailed Office action of the Acknowledgment is made of a claim for ince a specific reference was included by CFR 1.78. Acknowledgment is made of a claim for the foreign language.	documents have documents have of the priority documents have of the priority document of the for a list of the for domestic priority in the first sentences of the provisional of the priority domestic priority domestic priority documents have docu	been received. been received in cuments have been Rule 17.2(a)). certified copies notity under 35 U.S.Cence of the specified application has to the specifical application has to the specifical application has to the specifical application has the specifical application application application has the specifical application ap	Application No en received in this National Soft received. C. § 119(e) (to a provisional aication or in an Application Education been received. C. §§ 120 and/or 121 since a	application) Data Sheet.				
Attachmen			-						
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449) Pa			v Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-					

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Notice to Applicant(s)

1. Claims 1-18 of U.S. Application 09/731,141 filed on 12/6/2000 are presented for examination.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1- 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 Papadopoulos et al. U.S. Patent No. 6,282,454 (hereinafter Papadopoulos) in view of Jokela
 "Wireless Internet access using anonymous access methods" November 1999 IEEE International
 Workshop and further in view of Eady et al. U.S. Patent No. 6,304,788 (hereinafter Eady).

Referring to claim 1

Papadopoulos teaches a method for controlling and monitoring an industrial controller using a portable wireless device, utilizing a system including a programmable logic controller (PLC), a local server, said method comprising the steps of: monitoring and controlling a system using a programmable logic controller (PLC) (col. 4 lines 36-46, "Associated with the PLC ... information of the PLC 32"); exchanging communications between the PLC and a local server (col. 4 lines 21-35, "The web server 30 ... through the web server 30") displaying information from the PLC (col. 8 lines 37-43, "The different request ... Ethernet statistics and others") but

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does not teach a wireless Internet Service Provider (ISP); exchanging communications between the local server and a wireless Internet Service Provider (ISP) server utilizing the Internet; transmitting commands from a wireless user communication device to the PLC using the wireless ISP server. However, Jokela teaches a wireless Internet Service Provider (ISP) (page 194, Introduction 1st and 2nd paragraphs, "Internet access through current cellular ... packets are tunneled using GTP"); exchanging communications between the local server and a wireless Internet Service Provider (ISP) server utilizing the Internet (page 196, Demonstration 1st and 2nd paragraphs, "A user carrying a PDA ... packets to and from the MU"). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the wireless communication device through wireless ISP of Jokela with the industrial controller of Papadopoulos because it would provide for controlling and monitoring the PLC with a wireless device via the internet provided using a wireless ISP instead of a using normal Point-to-Point protocol. Furthermore, Eady teaches transmitting commands from a wireless user communication device (col. 5 lines 21-34, "Medical-monitor server 308 ... the client understand"). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the communication method of a wireless device of Eady with the wireless ISP of Jokela and the PLC of Papadopoulos because it would provide for communicating the PLC industrial controller with a wireless user communication device over the Internet using a wireless ISP server.

Regarding claim 2

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Papadopoulos teaches a step of exchanging communications between the PLC server and the local server further comprises the step of sending PLC operational data from the PLC to the local server (col. 5 line 64 to col. 6 line 45, "The PLC 32 interfaces ... the end of a scan interrupt").

Regarding claim 3

Papadopoulos teaches a step of exchanging communications between the local server and the ISP server further comprises the step of sending the PLC operational data from the local server to the ISP server (col. 9 lines 56-67, "A user at a remote ... previously shown in Table 1").

Regarding claim 4

Eady teaches the wireless user communication device includes a display for displaying information, said step of exchanging communications between the ISP server and the wireless user communication device further comprises the steps of: sending the monitoring device operational data from the ISP server to the wireless user communication device (col. 5 lines 21-34, "Medical-monitor server 308 ... the client understand"); and displaying the monitoring device operational data on the wireless user communication device display (col. 3 lines 32-46, "Coupled to the system ... Advanced Graphics Port").

Regarding claim 5

Eady teaches the wireless user communication device includes a user interface for inputting information to the wireless user communication device, said step of exchanging communications between the ISP server and the wireless user communications device further comprises the steps of: inputting at least one monitoring device command (col. 3 line 59 to col. 4 line 6, "The I/O devices ... comprises a ROM 292 and flash (or EEPROM) 294"); inputting monitoring device operational response data using the input device (col. 5 lines 60-67, "Communicate with ... their

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own information)"); sending the at least one monitoring device command from the wireless user communication device to the ISP server (col. 6 lines 1-10, "Set of CGI scripts ... access via server 102"); and sending the monitoring device operation response data from the wireless user communication device to the ISP server (col. 5 lines 21-34, "Medical-monitor server 308 ... the client understand").

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Regarding claim 6

Papadopoulos teaches a step of exchanging communications between the local server and the ISP server further comprises the steps of; sending the at least one PLC command from the ISP server to the local server using the Internet (col. 5 line 64 to col. 6 line 45); and sending the PLC operational response data from the ISP server to the local server using the Internet (col. 5 line 64 to col. 6 line 45, "The PLC 32 interfaces ... the end of a scan interrupt")

Regarding claim 7

Papadopoulos teaches a step of exchanging communications between the PLC and the local server further comprises the steps of: sending the at least one PLC command from the local server to the PLC (col. 5 line 64 to col. 6 line 45, "The PLC 32 interfaces ... the end of a scan interrupt"); and sending the PLC operational data from the local server to the PLC (col. 9 lines 17-29, "The operating system 44 ... processing the request").

Regarding claim 8

Papadopoulos teaches a step of monitoring and controlling further comprises the steps of: controlling the operation of the PLC using the at least one PLC command (col. 6 lines 35-45); and controlling the operation of the PLC using the PLC operational response data (col. 9 lines 17-29, "The operating system 44 ... processing the request").

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Regarding claim 9

Papadopoulos teaches a system for controlling and monitoring an industrial controller comprising: a programmable logic controller (PLC) (col. 4 lines 36-46); a local server configured to exchange communication with said PLC (col. 4 lines 21-35) but does not teach a wireless Internet Service Provider (ISP) server configured to exchange communication with said local server using the Internet; a wireless user communication device configured to exchange communication with said wireless ISP server. However, Jokela teaches a wireless Internet Service Provider (ISP) server configured to exchange communication with said the local server using the Internet (page 196, Demonstration 1st and 2nd paragraphs, "A user carrying a PDA... packets to and from the MU"). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the wireless communication device through wireless ISP of Jokela with the industrial controller of Papadopoulos because it would provide for controlling and monitoring the PLC with a wireless device via the internet provided using a wireless ISP instead of a using normal Point-to-Point protocol. Furthermore, Eady teaches a wireless user communication device configured to exchange communication with ISP server (col. 5 lines 21-34, "Medical-monitor server 308 ... the client understand"). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the communication method of Eady with the wireless ISP of Jokela and the PLC of Papadopoulos because it would provide for communicating the PLC industrial controller with a wireless user communication device over the Internet using a wireless ISP server.

Regarding claim 10

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Papadopoulos teaches a system in accordance with claim 9, wherein said local server further configured to access PLC operation data from said PLC (col. 5 line 64 to col. 6 line 45, "The PLC 32 interfaces ... the end of a scan interrupt").

Regarding claim 11

Papadopoulos teaches a system in accordance with claim 10, wherein said local server further configured to communicate the PLC operation data to said ISP server (col. 4 lines 21-35, "The web server 30 ... through the web server 30").

Regarding claim 12

Eady teaches a system in accordance with claim 11, wherein said local server further configured to communicate the monitoring device to said wireless user communication device (col. 2 line 46-57, "Set of medical ... may be readily used").

Regarding claim 13

Eady teaches a system in accordance with claim 12, wherein said wireless user communication device further configured to display the monitoring device operational data (col. 3 lines 32-46, "Coupled to the system ... Advanced Graphics Port").

Regarding claim 14

Papadopoulos teaches a system in accordance with Claim 9 wherein said wireless user communication device further configured to initiate at least one PLC command and communicate the PLC command to said ISP server (col. 4 lines 30-46, "The client interface ... information of the PLC 32").

Regarding claim 15

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Papadopoulos teaches a system in accordance with Claim 14 wherein said wireless user communication device further configured to initiate PLC operational response data and communicate the PLC operational response data to said ISP server (col. 9 lines 56-67, "A user at a remote ... previously shown in Table 1").

Regarding claim 16

Papadopoulos teaches a system in accordance with Claim 15 wherein said ISP server further configured to communicate the at least one PLC command and the PLC operational response data to said local server (col. 4 lines 30-46, "The client interface ... information of the PLC 32").

Regarding claim 17

Papadopoulos teaches a system in accordance with Claim 16 wherein said local server further configured to communicate the at least one PLC command and the PLC operational response data to said PLC (col. 6 lines 35-45, "The request for accessing ... the end of a scan interrupt").

Regarding claim 18

Eady teaches a system in accordance with Claim 9 wherein said wireless user communication device comprises: a user interface configured for the input of information to said wireless communication device (col. 3 line 59 to col. 4 line 6, "The I/O devices ... comprises a ROM 292 and flash (or EEPROM) 294"); and a display configured to display the user input information and information received by said wireless communication device from said ISP server (col. 3 lines 32-46, "Coupled to the system ... Advanced Graphics Port").

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner *Thomas Pham*; whose telephone number is (703) 305-7587 and fax number is (703) 746-8874, Monday-Thursday and every other Friday from 7:30AM- 5:00PM EST or contact Supervisor *Mr. Anil Khatri* at (703) 305-0282.

Any response to this office action should be mailed to: Director of Patents and Trademarks Washington, D.C. 20231, or Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive Arlington, Virginia, (Receptionist located on the 4th floor), or fax to the official fax number (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Thomas Pham

Patent Examiner

TP

November 26, 2003

PRIMESHPATEL 1, 126/03
PRIMARY EXAMINER 1, 126/03
For Anil Khatri

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